

# Tropical Storm Ingrid and Associated Impacts for the Rio Grande Valley

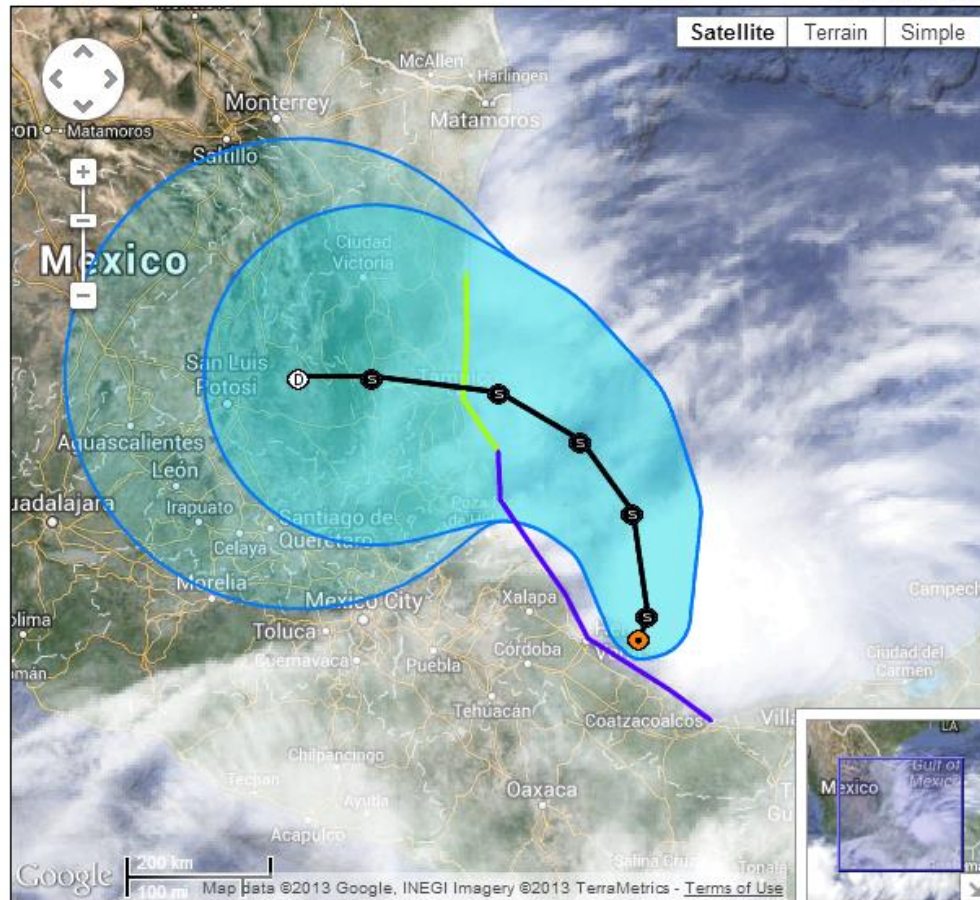
Friday, Sept. 13 **4 PM CDT Update**



# The Latest on Ingrid

Coastal Watches/Warnings and 5-Day Track Forecast Cone  
Tropical Storm INGRID Advisory #005  
4:00 PM CDT Fri September 13, 2013

Select Advisory: Advisory #005 Load Data ☒ Clouds ☒ Cone ☒ Track View in Google Earth (Active KML)



- Minimal Tropical Storm
- Forecast Winds to Increase to ~65 mph at landfall
- **Core of Tropical Storm Force Winds “Tight”...**
- **...but Strong Winds will Extend Well North Over Water**
- Landfall Expected Sunday Evening **(but Impacts Felt Well Beyond This Time)**



# What to Watch For

- **Locally Heavy Rainfall**
  - **Event Total, inches (Through September 20):**
    - 5 to 8 Lower Valley
    - 4 to 6 Mid/Upper Valley
    - 3 to 4 Ranchlands
  - **Core Total (Sat Night-Tuesday)**
    - 2 to 4 Lower Valley
    - 1 to 3 Mid/Upper Valley
    - 1 to 2 Ranchlands
- **Tidal Run-up/Overwash/Flooding**
  - Run-up to Dunes Early Saturday, at Low Tide Sunday-Monday
  - Run-up into Dunes at High Tide Sunday/Monday
  - Tides 1 to 2 feet above predicted levels inshore; 2 to 3+ feet above predicted levels onshore
  - Some Beach Erosion
- **Surf/Currents**
  - 8 to 10 foot breakers (Sat-Tue)
  - Very Dangerous Rip Currents



# Potential Impact/Action

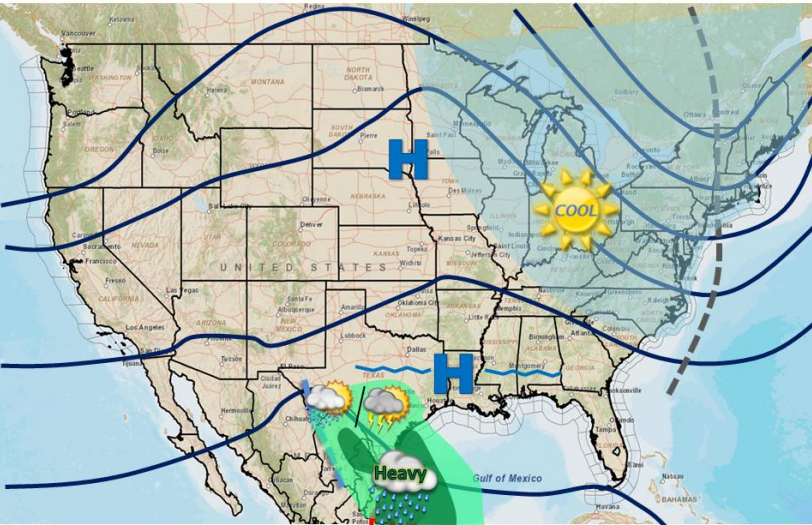
- **Flooding Impact**
  - Nuisance flooding of poor drainage locations guaranteed at some point through next week
  - Heavier/persistent bands could produce life/property threatening flooding in poor drainage locations or saturated areas
- **Actions**
  - Clear Canals, Ditches, Streets of Debris. Ensure Sewer Access. Have Pumps at the Ready
    - These actions completed by Saturday Afternoon.
  - Residents in known prone areas should consider moving property to higher levels inside and outside of homes
- **Surf/Tide Actions**
  - Poor/Average swimmers out of water, Saturday UFN
  - Seasoned Surfers Be Vigilant to Rips Saturday
  - Beach Property Owners: Move items to higher ground or behind sea wall
  - Bay Property Owners: Move items above prone areas





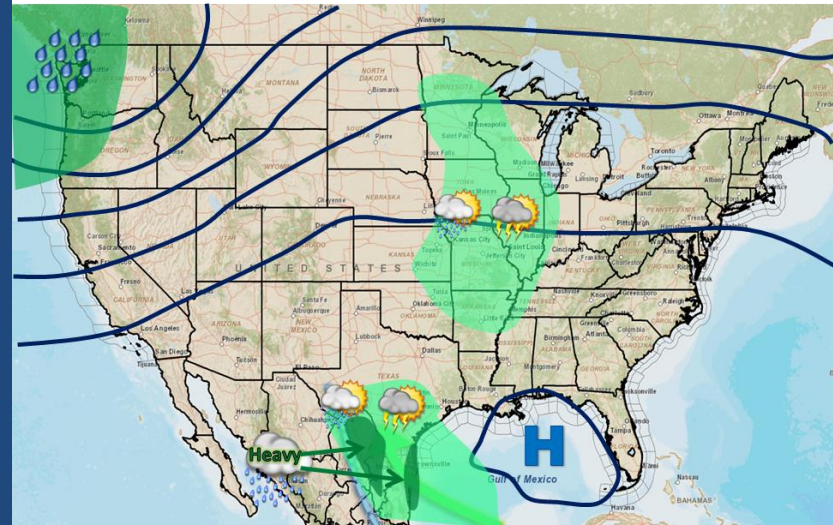
# Tough Forecast?

## Steering Pattern Monday, Sep. 16



Does the Ridge Hold Strong and “Shove” Ingrid West of Tampico, Reducing the Potential for Very Heavy Rainfall across the RGV?

## Steering Pattern Wednesday, Sep. 18

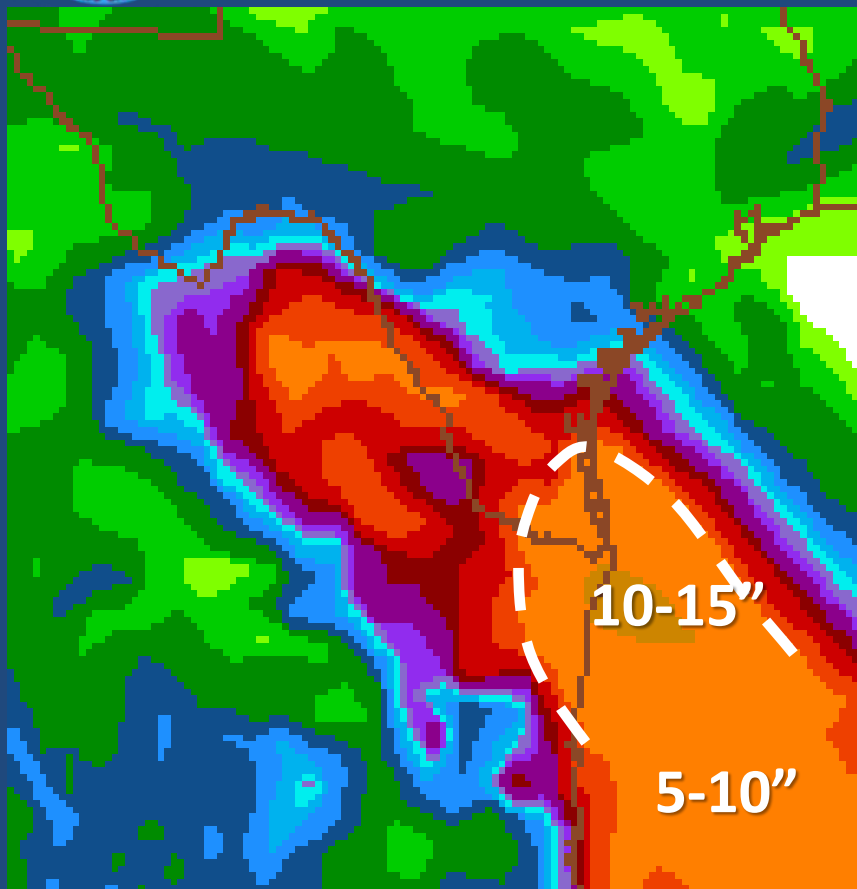


...Or Does It Leave a “Weakness” on it’s back side, allowing very heavy rainfall to begin at landfall and continue through the 19<sup>th</sup>?

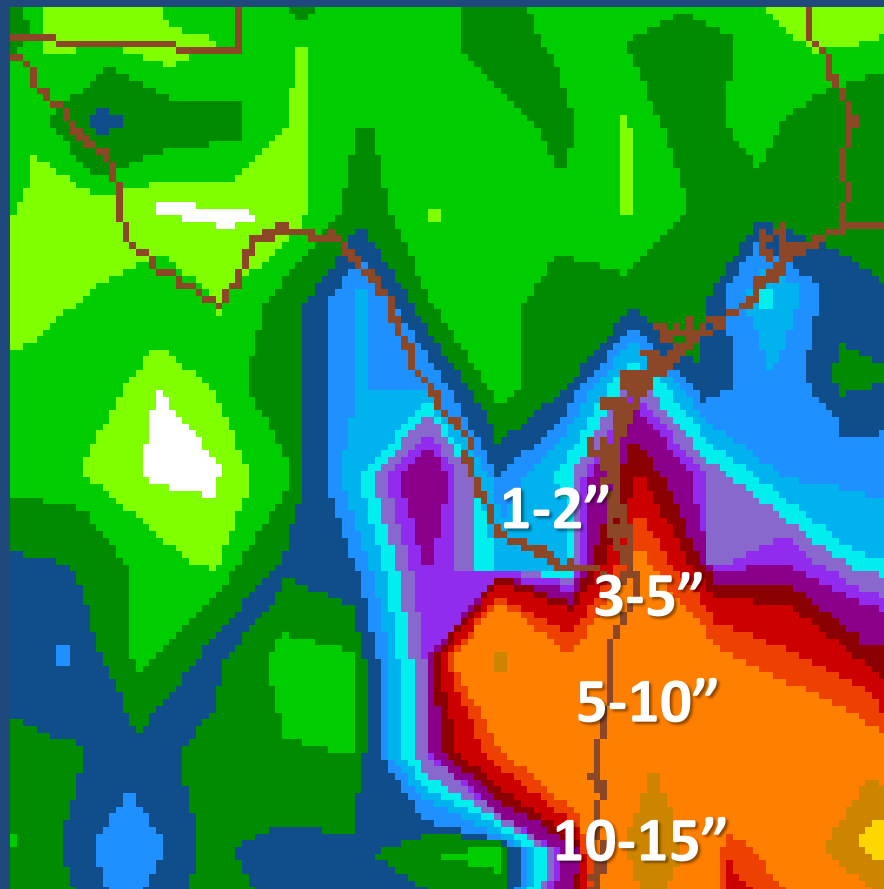


# Subtle Difference, Huge Affect?

Thru Monday Evening at 7 PM



North American Mesoscale Model



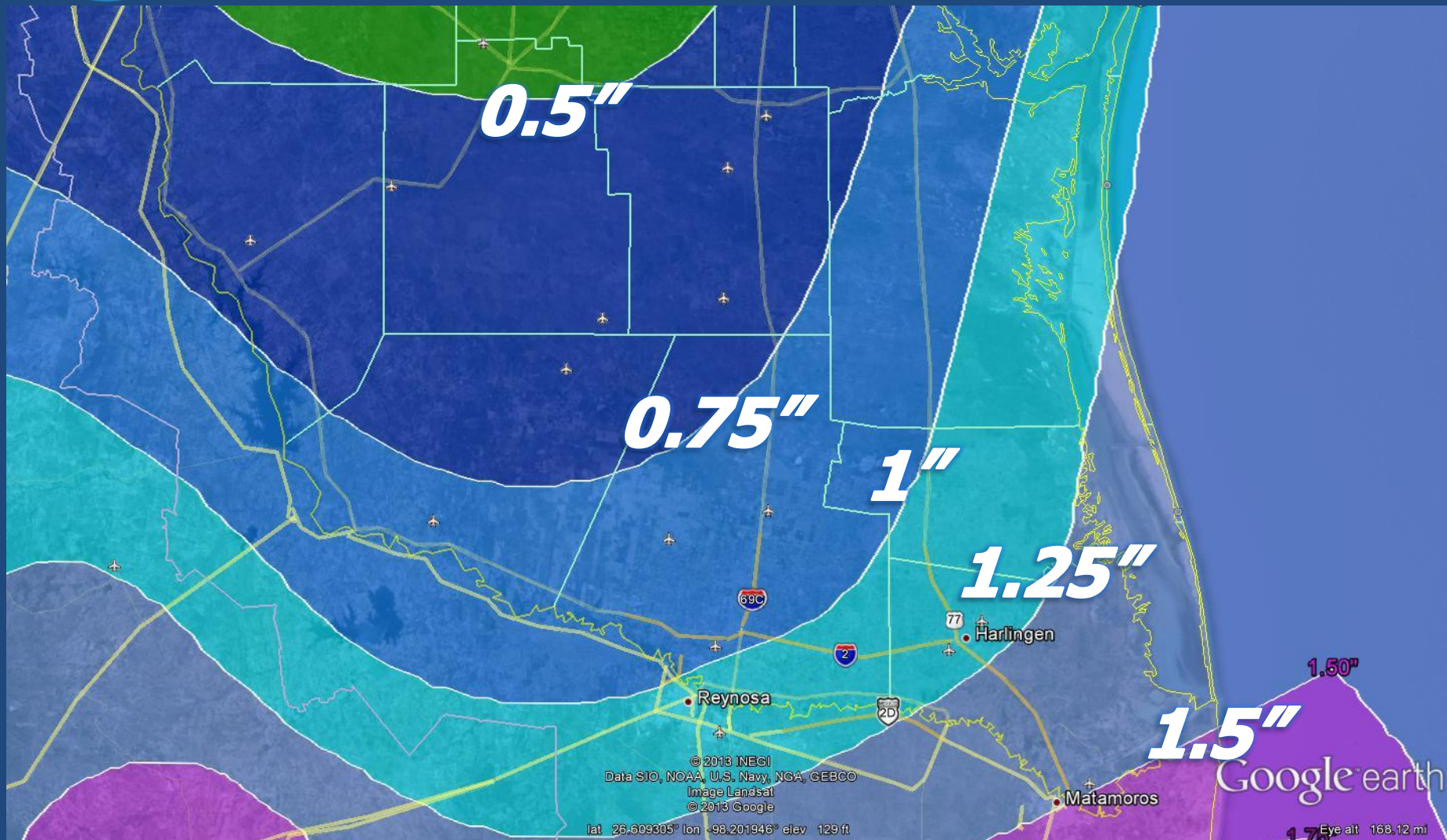
Global Forecast System Model





# "Best Forecast" (Subject to Change)

Saturday 7 PM – Sunday 7 PM



[weather.gov/rgv](http://weather.gov/rgv)



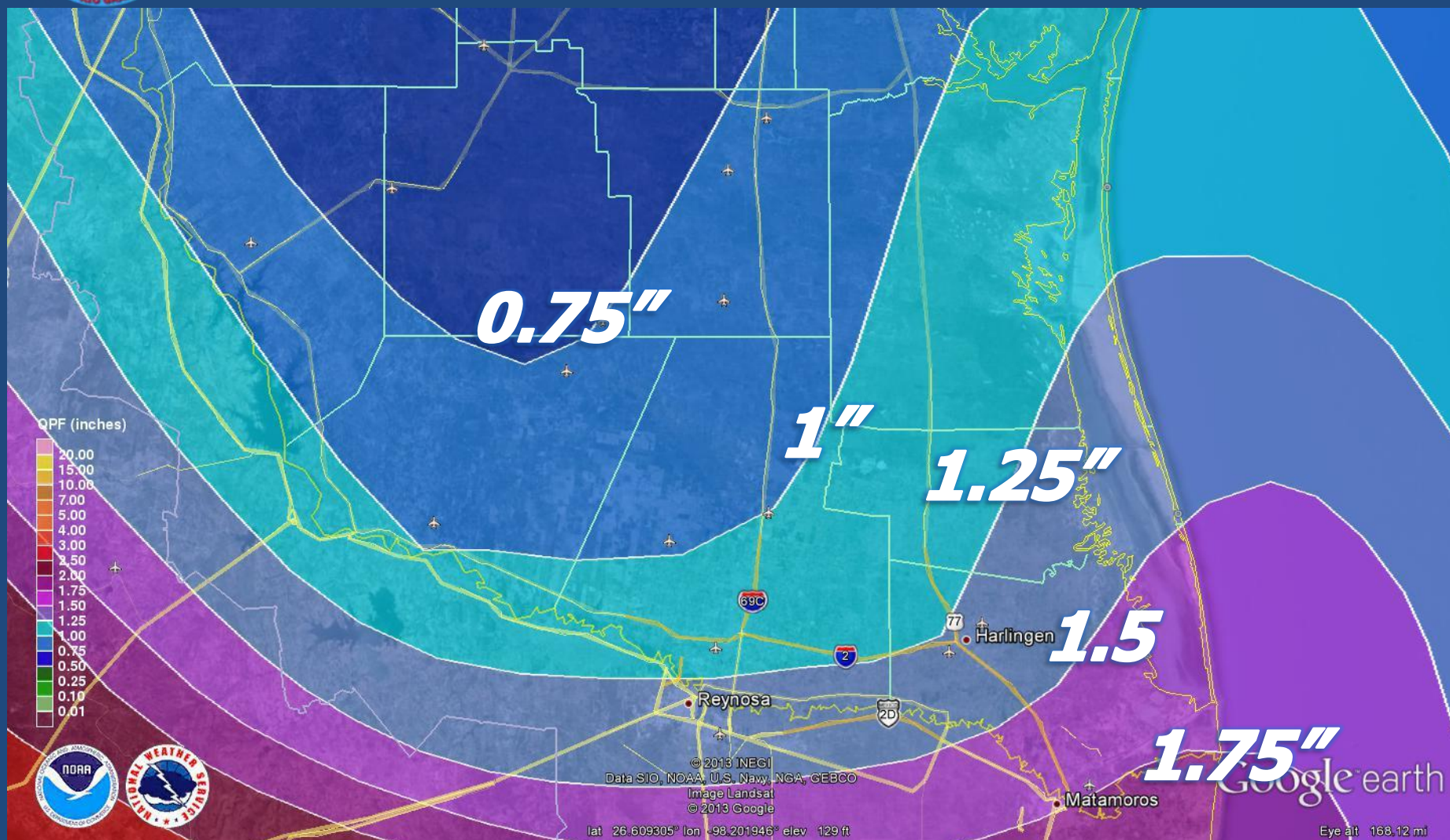
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# "Best Forecast" (Subject to Change)

Sunday 7 PM – Monday 7 PM

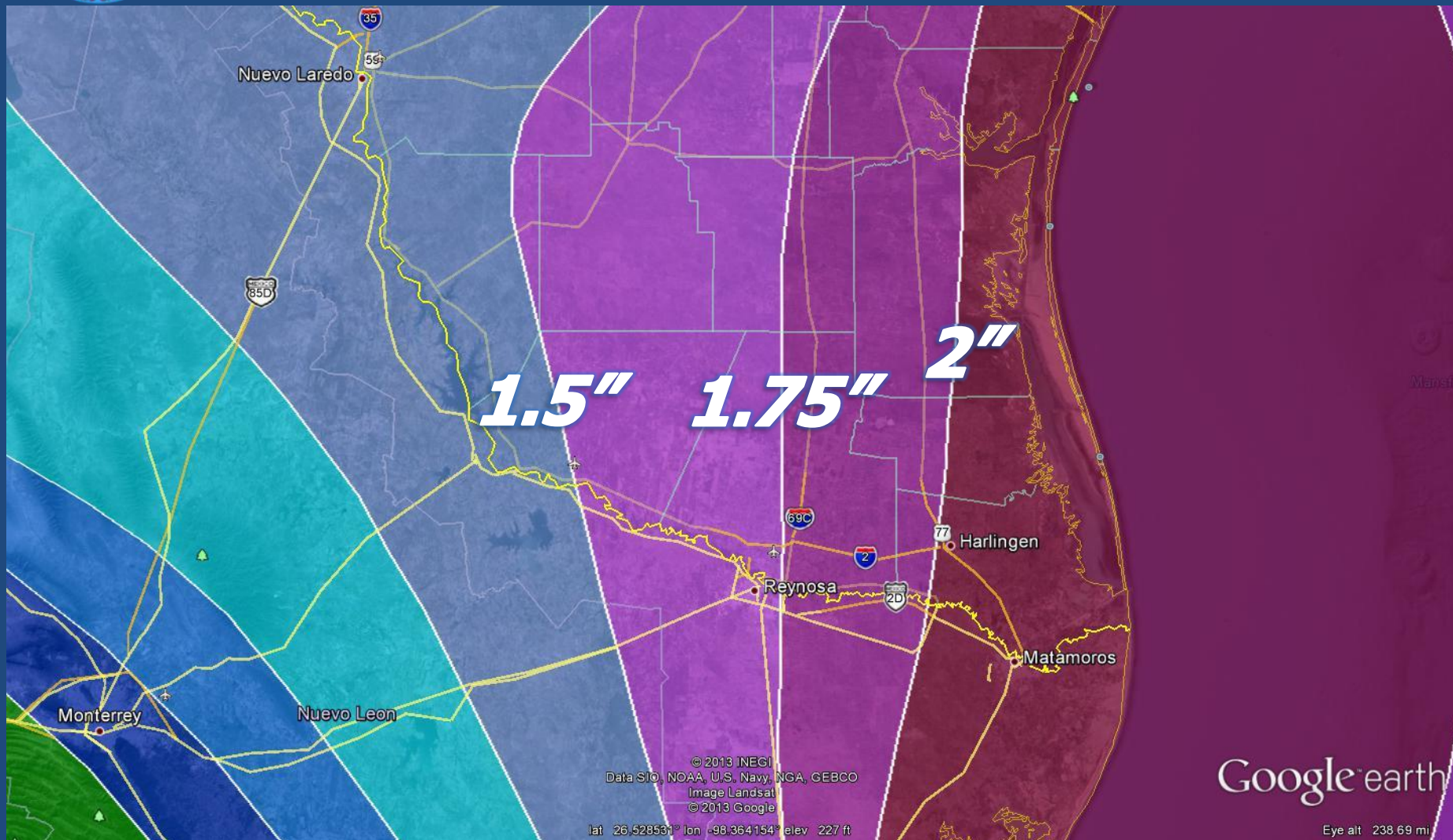






# "Best Forecast" (Subject to Change)

Monday 7 PM – Wednesday 7 PM

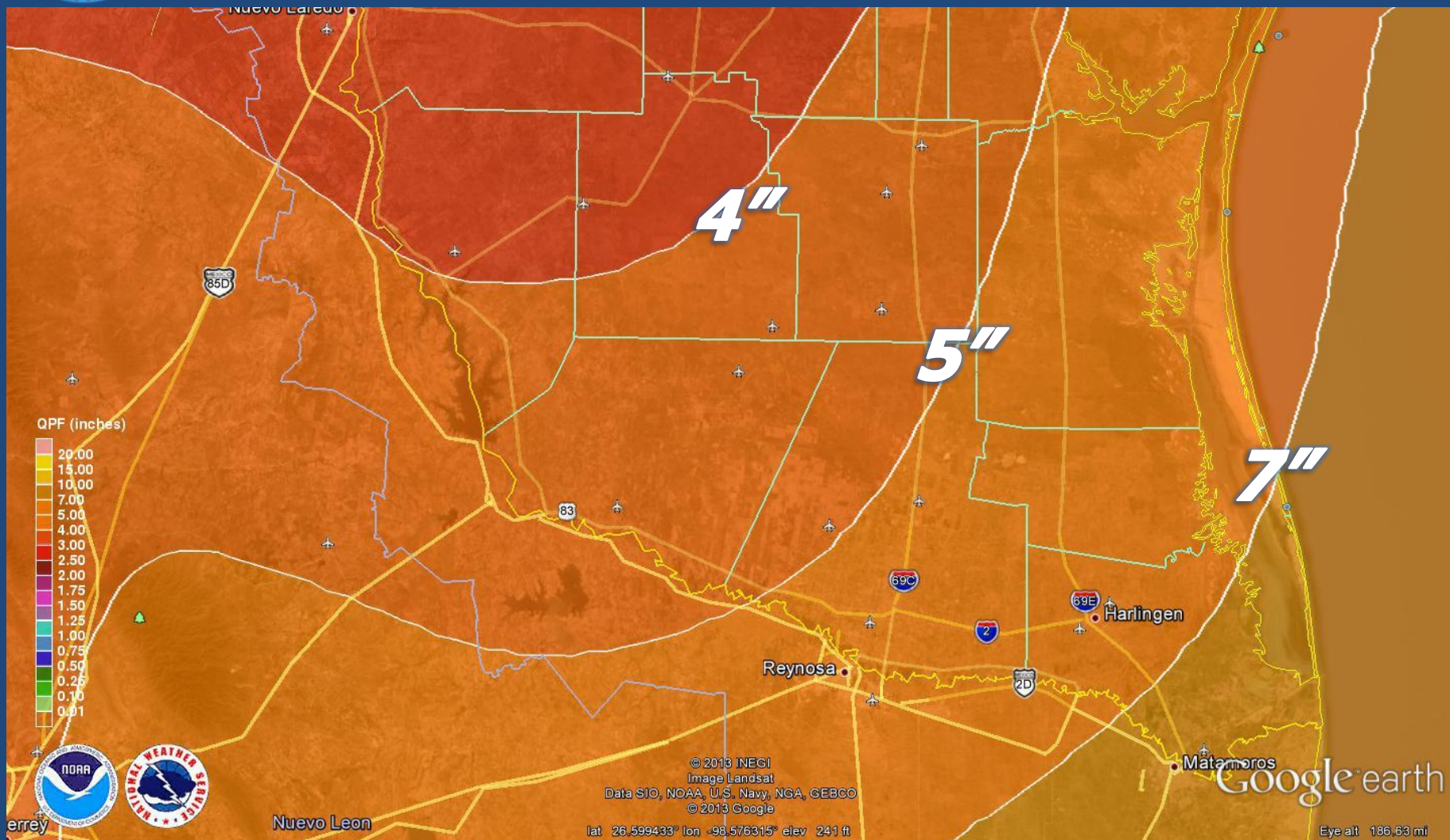






# "Best Forecast" (Subject to Change)

Event Total (Through Friday, Sept. 20)

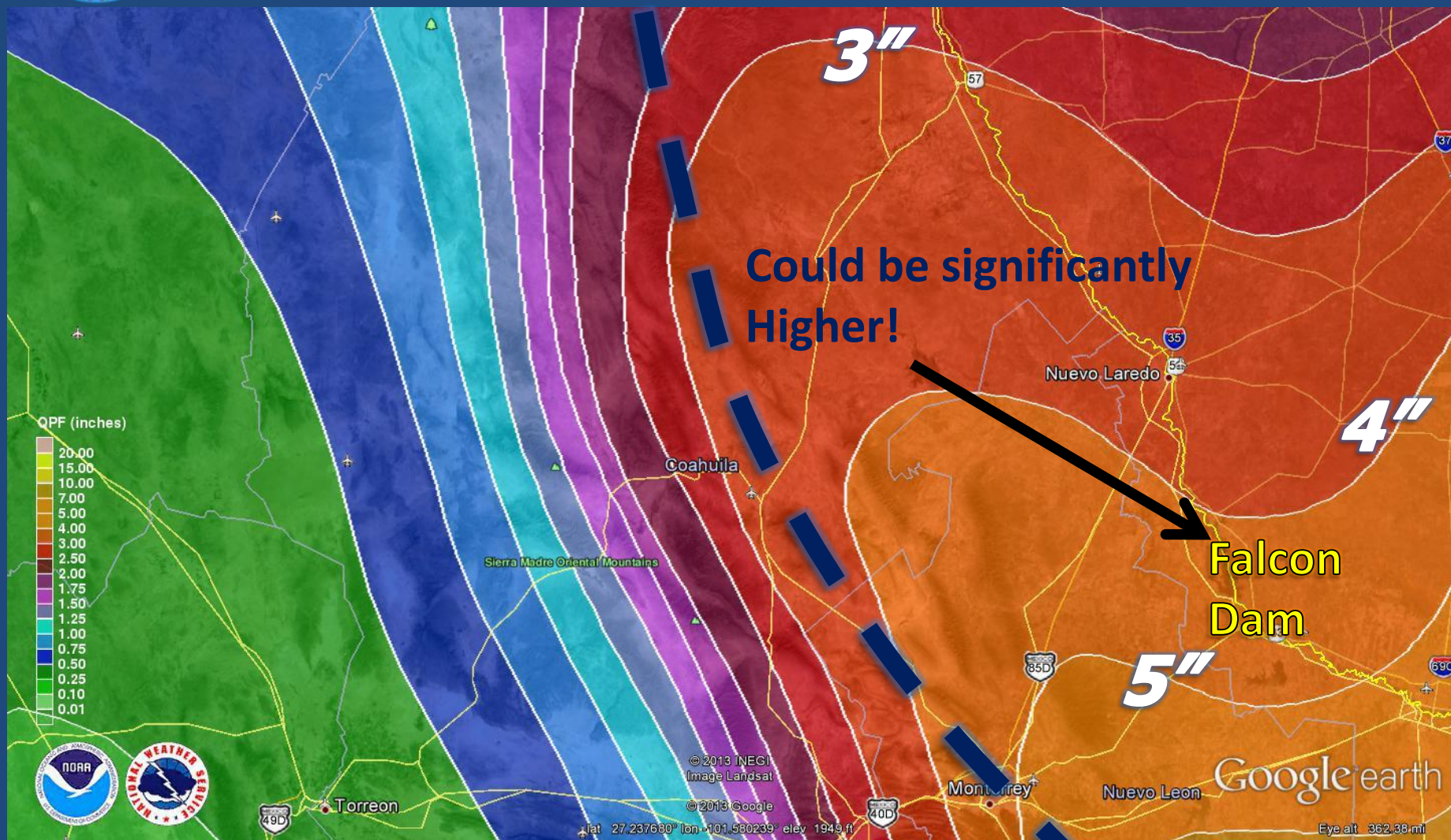






# (Some) Reservoir/Rio Grande Relief??

Event Total







# Surf and Tide

**Saturday  
Morning?**





# Surf and Tide

**Sunday/  
Monday  
Morning?**



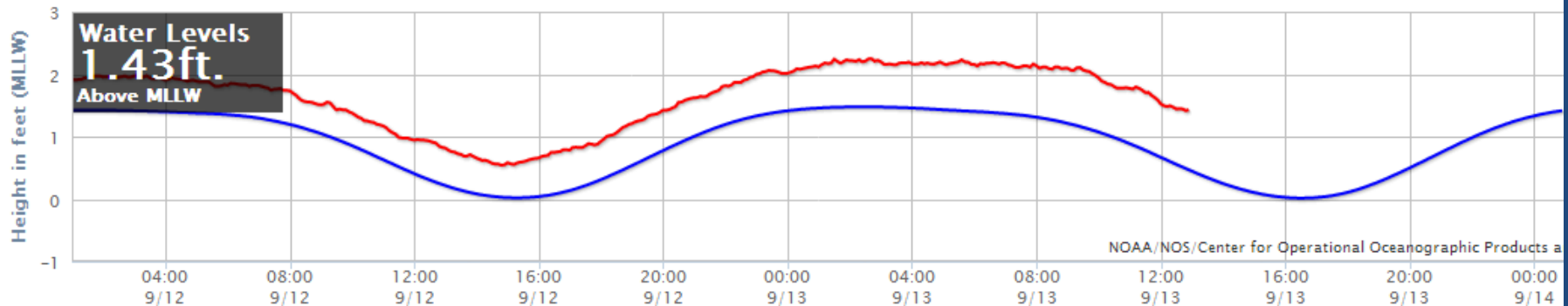


# Surf and Tide

Water Levels

- Predictions
- Water Levels

NOAA/NOS/CO-OPS  
Water Levels at 8779748, South Padre Island Coast Guard Station, TX  
From 09/12/2013 00:00 LST/LDT to 09/13/2013 23:59 LST/LDT

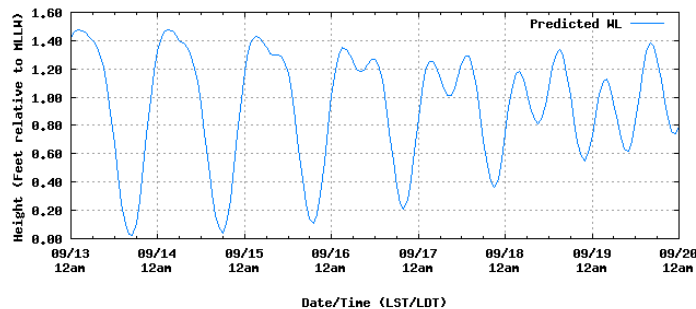


SOUTH PADRE ISLAND COAST GUARD STATION, TX StationId: 8779748

Weekly Tide Prediction in Feet  
Time Zone: LST/LDT  
Datum: MLLW

2013/09/13 - 2013/09/19

[Back to Station](#)  
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Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Begin Date:    Time Range:  Time Zone:  Data Units:  [Show Advanced Options](#)

Published Tide Tables Form

[Annual PDF](#) [Annual TXT](#) [Annual XML](#)

[Get Adobe Reader](#) [Printer Friendly](#)

High/Low Tide Predictions in Feet  
from 2013/09/13 - 2013/09/19

Download:

Date	Day	Time	Hgt
09/13	Fri	02:28 AM	1.48 H
09/13	Fri	04:32 PM	0.02 L
09/14	Sat	02:56 AM	1.48 H
09/14	Sat	05:46 PM	0.04 L
09/15	Sun	03:12 AM	1.43 H
09/15	Sun	06:54 PM	0.1 L
09/16	Mon	03:22 AM	1.35 H
09/16	Mon	08:08 AM	1.18 L
09/16	Mon	11:43 AM	1.27 H
09/16	Mon	07:56 PM	0.21 L
09/17	Tue	03:29 AM	1.26 H
09/17	Tue	08:34 AM	1.0 L
09/17	Tue	01:29 PM	1.3 H
09/17	Tue	08:55 PM	0.36 L
09/18	Wed	03:35 AM	1.18 H
09/18	Wed	09:06 AM	0.81 L
09/18	Wed	02:55 PM	1.34 H
09/18	Wed	09:50 PM	0.55 L
09/19	Thu	03:42 AM	1.13 H
09/19	Thu	09:41 AM	0.61 L
09/19	Thu	04:12 PM	1.39 H
09/19	Thu	10:44 PM	0.74 L





# Surf and Tide

- Peaking 1 to 2 feet above predicted inshore
- Peaking 2 to 3+ feet onshore (beach)
- Monday Morning Worst...
- ...But Sunday not so great and high tides/rough surf hanging on Tuesday and Wednesday
- **Bad week for vacation at SPI!!**



# Boating and Fishing

- Seas Rising to 10 to 14 feet by Monday
- Swell Period Likely to reach 10-12 seconds
- Winds: 25 to 30 knots Sunday-Tuesday
- **Offshore Trips Should be Postponed Saturday Until Further Notice**
- **Inshore Trips Postponed Sunday-Tuesday, at least**



# Summary

- Weather Goes Downhill Saturday night and continues through Wednesday
- Event will feature frequent “gusty” showers (winds up to 30-35 mph in gusts); when bands form, 1 to 2 inches in a couple hours possible
- Sunday-Tuesday Best Opportunity for Banding
- Tornadoes? Can’t rule out isolated “spin ups”  
Monday – Wednesday (Remember Arlene/Hidalgo, 2011)
- **Forecast is tricky! Rainfall could be a few inches lower or several inches higher than forecast**





Thank  
You!

